5. The magnet rotor as claimed in claim 1, wherein said permanent magnets are bonded with a bonding agent said mutually neighboring magnet pieces.

6. The magnet rotor as claimed in claim 1, wherein said permanent magnet and said back yoke are bonded with a bonding agent having a low Young's modulus and a high coefficient of thermal expansion, such as a silicon rubber adhesive, or fixed with resin having a high Young's modulus, such as epoxy resin.

7. The magnet rotor as claimed in claim 1, wherein said sleeve is made of carbon fiber reinforced plastic or nonmagnetic metal.

8. The magnet rotor as claimed in claim 1, wherein said plate is made of stainless steel like SUS30 and nonmagnetic material such as Inconel.

9. The magnet rotor as claimed in claim 1, wherein said permanent magnet is fixed to said back yoke, and after balance adjusting said rotary shaft based on a bearing part as reference, magnetized integrally with the rotary shaft by a magnetizing machine.

10. An AC machine with a high output having a ring part fixed to a housing, a tooth part extending from the ring part to the inside in a radial direction, a stator made up with a coil wound round the tooth part, and one of the magnet rotors as claimed in claim 1 arranged in said part of the stator.

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## REMARKS

This Preliminary Amendment is submitted to improve the form of the specification as